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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to footpaths in Ward No: 15 (Kuvempunagara).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (150mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	6.57	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	99.51	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-14-02** **Date: 30-06-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-
Customer's Reference	:	BBMP/EE/BPT/WO/185/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-14-02** **Date: 26-07-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097
Customer's Reference	:	BBMP/EE/BPT/WO/185/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	28-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-09-14-02** **Date: 30-06-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097
Customer's Reference	:	BBMP/EE/BPT/WO/185/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-06-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-09-14-02** **Date: 30-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-09-14-02** **Date: 30-06-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-
Customer Reference	:	BBMP/EE/BPT/WO/185/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	241	241	4.8	95.2	90-100
3	10 mm	2562	2803	56.1	43.9	25-55
4	4.75 mm	2035	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-09-14-02** **Date: 30-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-14-02** **Date: 30-06-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-06-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	53	74	7.4	92.6	60-95	75-100	85-100	95-100
4	1.18 mm	225	299	29.9	70.1	30-70	55-90	75-100	90-100
5	600 micron	201	500	50.0	50.0	15-34	35-59	60-79	80-100
6	300 micron	212	712	71.2	28.8	5-20	8-30	12-40	15-50
7	150 micron	205	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-14-02** **Date: 30-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-09-14-02** **Date: 28-06-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097
Customer's Reference	:	BBMP/EE/BPT/WO/185/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	27-06-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-09-14-02** **Date: 12-07-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-07-23

Sample Type /Size : Precast Cover Slab- 150mm thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 08/07/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	150.48	2.126	4719	80.5	17.1	15.9	19.8
2	Cover Slab-2	77.48	150.52	2.131	4714	82.5	17.5	16.3	20.3
3	Cover Slab-3	77.51	150.51	2.119	4718	81.2	17.2	16.0	20.0

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-09-14-02** **Date: 21-07-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-23

Sample Type /Size : Precast Cover Slab- 230mm thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 17/07/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.53	230.51	2.856	4720	80.4	17.0	15.8	19.8
2	Cover Slab-2	77.49	230.5	2.812	4715	83.7	17.8	16.5	20.6
3	Cover Slab-3	77.48	230.47	2.864	4714	82.1	17.4	16.2	20.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2023-09-14-02**	**Date: 21-07-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to footpaths in Ward No: 15 (Kuvempunagara).	
Agency	:	Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097	
Customer's Reference	:	BBMP/EE/BPT/WO/185/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-07-23	
Sample Type /Size	:	CC Kerb Stone/ 600*150*300mm	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	17/07/2023	
Grade of Kerb	:	M15	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	77.49	150.52	2.182	4715	81.6	17.3	17.3	21.6
2	B	77.53	150.48	2.154	4720	83.4	17.7	17.7	22.1
3	C	77.51	150.50	2.166	4718	82.1	17.4	17.4	21.8

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 14/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	07/07/2023	14/07/2023	150.24 X 150.30 X 150.16	22582	8.150	327.0	14.5	14.8
2	Drain Bottom Raft Concrete	M20	07/07/2023	14/07/2023	150.60 X 150.47 X 150.61	22662	8.605	337.6	14.9	
3	Drain Bottom Raft Concrete	M20	07/07/2023	14/07/2023	150.14 X 150.21 X 150.71	22552	8.343	337.4	15.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 04/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	07/07/2023	04/08/2023	150.46 X 150.08 X 150.34	22580	8.148	521.0	23.1	23.1
2	Drain Bottom Raft Concrete	M20	07/07/2023	04/08/2023	150.11 X 150.89 X 150.59	22650	8.934	528.0	23.3	
3	Drain Bottom Raft Concrete	M20	07/07/2023	04/08/2023	150.13 X 150.69 X 150.03	22623	8.858	521.7	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 18/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/07/2023	18/07/2023	150.52 X 150.25 X 150.92	22615	8.296	331.2	14.6	14.6
2	Drain Side Wall Concrete	M20	11/07/2023	18/07/2023	150.63 X 150.67 X 150.59	22696	8.189	338.0	14.9	
3	Drain Side Wall Concrete	M20	11/07/2023	18/07/2023	150.44 X 150.23 X 150.71	22601	8.505	325.6	14.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 08/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/07/2023	08/08/2023	150.28 X 150.75 X 150.28	22655	8.131	531.3	23.5	23.5
2	Drain Side Wall Concrete	M20	11/07/2023	08/08/2023	150.94 X 150.96 X 150.11	22786	8.491	525.1	23.0	
3	Drain Side Wall Concrete	M20	11/07/2023	08/08/2023	150.56 X 150.37 X 150.27	22640	8.377	540.1	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 21/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	14/07/2023	21/07/2023	150.69 X 150.62 X 150.86	22697	8.973	340.4	15.0	14.8
2	Culvert Bottom Raft Concrete	M20	14/07/2023	21/07/2023	150.06 X 150.10 X 150.14	22524	8.980	328.9	14.6	
3	Culvert Bottom Raft Concrete	M20	14/07/2023	21/07/2023	150.51 X 150.10 X 150.25	22591	8.332	332.9	14.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 11/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	14/07/2023	11/08/2023	150.27 X 150.87 X 150.17	22671	8.872	527.1	23.2	23.3
2	Culvert Bottom Raft Concrete	M20	14/07/2023	11/08/2023	150.23 X 150.89 X 150.64	22669	8.614	526.7	23.2	
3	Culvert Bottom Raft Concrete	M20	14/07/2023	11/08/2023	150.89 X 150.92 X 150.06	22773	8.365	531.1	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 25/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S. No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.66 X 150.21 X 150.46	22631	8.889	327.2	14.5	14.5
2	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.60 X 150.38 X 150.27	22647	8.564	325.6	14.4	
3	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.34 X 150.64 X 150.42	22647	8.657	328.9	14.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 16/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital. Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.76 X 150.40 X 150.47	22674	8.317	538.9	23.8	23.6
2	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.05 X 150.07 X 150.73	22519	8.847	532.5	23.6	
3	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.47 X 150.73 X 150.10	22681	8.827	528.5	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 25/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.05 X 150.44 X 150.02	22574	8.416	326.8	14.5	14.4
2	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.07 X 150.10 X 150.71	22525	8.205	324.0	14.4	
3	Culvert Side Wall Concrete	M20	18/07/2023	25/07/2023	150.61 X 150.77 X 150.19	22708	8.500	328.0	14.4	

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Lab ID : **CP-2023-09-14-02** **Date: 16/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.58 X 150.30 X 150.37	22633	8.956	533.1	23.6	23.4
2	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.18 X 150.86 X 150.48	22657	8.750	526.2	23.2	
3	Culvert Side Wall Concrete	M20	18/07/2023	15/08/2023	150.66 X 150.19 X 150.10	22627	8.440	530.6	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 28/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

Agency : Sri. Venkateshappa S, No:88, Varadharaja Swamy Layout, 1st Main Road, Singapura, Near Aveksha Hospital, Vidyranyapura Bangalore-560097

Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.34 X 150.43 X 150.08	22615	**8.582**	170.2	7.5	7.6
2	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.98 X 150.82 X 150.43	22771	**8.637**	175.1	7.7	
3	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.22 X 150.60 X 150.28	22623	**8.239**	172.6	7.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-14-02** **Date: 18/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Project Name : Improvements to footpaths in Ward No: 15 (Kuvempunagara).

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Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.93 X 150.52 X 150.80	22718	**8.380**	280.8	12.4	12.3
2	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.04 X 150.02 X 150.99	22509	**8.999**	276.7	12.3	
3	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.52 X 150.99 X 150.21	22727	**8.309**	277.7	12.2	

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Lab ID : **CP-2023-09-14-02** **Date: 28/07/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.77 X 150.89 X 150.58	22749	**8.445**	174.8	7.7	7.7
2	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.98 X 150.93 X 150.84	22787	**8.788**	179.5	7.9	
3	Culvert Ramp Concrete	M10	21/07/2023	28/07/2023	150.14 X 150.42 X 150.26	22584	**8.237**	173.0	7.7	

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Customer's Reference : BBMP/EE/BPT/WO/185/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.87 X 150.70 X 150.53	22736	**8.568**	262.9	11.6	11.9
2	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.70 X 150.51 X 150.45	22682	**8.277**	268.0	11.8	
3	Culvert Ramp Concrete	M10	21/07/2023	18/08/2023	150.76 X 150.22 X 150.28	22647	**8.182**	280.6	12.4	

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